This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An image forming apparatus having an automatic double-side unit and being capable of effecting printing on both surfaces of a paper sheet, comprising:

setting means for setting an adjustment mode at a time of effecting printing on both surfaces of the paper sheet;

first storage means for prestoring predetermined image data that is used in the adjustment mode set by the setting means;

first control means for executing a control to form an image on a first surface of the sheet using the image data stored in the first storage means, when the setting means sets the adjustment mode;

first measuring means for measuring a size of the image formed on the first surface of the sheet, when the image formed on the first surface of the sheet is subjected to thermal fixation and conveyed;

second control means for executing a control to form an image on a second surface of the sheet using the image data stored in the first storage means, when the sheet is reversely fed by the automatic double-side unit;

second measuring means for measuring a size of the image formed on the second surface of the sheet, when the image formed on the second surface of the sheet is subjected to thermal fixation and conveyed;

calculation means for calculating correction data for a printing magnification for image formation on the second surface of the sheet, on the basis of a measurement result obtained by the first measuring means and a measurement result obtained by the second measuring means; and

second storage means for storing the correction data calculated by the calculation means.

2. (Original) The image forming apparatus according to claim 1, wherein the first storage means prestores predetermined image data including a triangular solid mark and a rectangular solid mark.

- 3. (Original) The image forming apparatus according to claim 1, wherein the first measuring means uses one or more sensors to measure a passage time of the predetermined image formed on the first surface of the sheet.
- 4. (Original) The image forming apparatus according to claim 1, wherein the second measuring means uses one or more sensors to measure a passage time of the predetermined image formed on the second surface of the sheet.
- 5. (Original) The image forming apparatus according to claim 1, wherein the calculation means calculates correction data on the basis of a speed of conveyance of the paper sheet, a passage time of the predetermined image measured by the first measuring means, and a passage time of the predetermined image measured by the second measuring means.
- 6. (Original) The image forming apparatus according to claim 1, wherein the calculation means calculates correction data that ensures a print position and dimensional precision of the image formed on the second surface of the sheet, which thermally contracts due to thermal fixation of the image formed on the first surface of the sheet, in relation to the image formed on the first surface of the sheet recovers from the thermal contraction.
- 7. (Original) The image forming apparatus according to claim 1, wherein the calculation means calculates correction data for a magnification in a main-scan direction and a magnification in a sub-scan direction.
- 8. (Original) The image forming apparatus according to claim 1, wherein the second storage means stores correction data for a magnification in a main-scan direction and a magnification in a sub-scan direction.

9. (Original) An image forming apparatus having an automatic double-side unit and being capable of effecting printing on both surfaces of a paper sheet, comprising:

setting means for setting an adjustment mode at a time of effecting printing on both surfaces of the paper sheet;

first storage means for prestoring predetermined image data that is used in the adjustment mode set by the setting means;

first image forming means for forming an image on a first surface of the sheet using the image data stored in the first storage means, when the setting means sets the adjustment mode;

first measuring means for measuring a size of the image formed on the first surface of the sheet, when the image formed on the first surface of the sheet is subjected to thermal fixation and conveyed;

second image forming means for forming an image on a second surface of the sheet using the image data stored in the first storage means, when the sheet is reversely fed by the automatic double-side unit;

second measuring means for measuring a size of the image formed on the second surface of the sheet, when the image formed on the second surface of the sheet is subjected to thermal fixation and conveyed;

calculation means for calculating correction data for a printing magnification for image formation on the second surface of the sheet, on the basis of a measurement result obtained by the first measuring means and a measurement result obtained by the second measuring means;

second storage means for storing the correction data calculated by the calculation means; and

control means for executing, when an image is to be formed on the second surface of the sheet in double-side printing, a control to form the image by correcting a print magnification using the correction data stored in the second storage means.

10. (Original) The image forming apparatus according to claim 9, wherein the control means corrects a magnification in a main-scan direction and a magnification in a subscan direction using the correction data.

11. (Original) An image forming method for an image forming apparatus having an automatic double-side unit and being capable of effecting printing on both surfaces of a paper sheet, comprising:

setting an adjustment mode at a time of effecting printing on both surfaces of the paper sheet;

prestoring predetermined image data that is used in the adjustment mode;

forming an image on a first surface of the sheet using the prestored image data, when the adjustment mode is set;

measuring a size of the image formed on the first surface of the sheet, when the image formed on the first surface of the sheet is subjected to thermal fixation and conveyed;

forming an image on a second surface of the sheet using the prestored image data, when the sheet is reversely fed by the automatic double-side unit;

measuring a size of the image formed on the second surface of the sheet, when the image formed on the second surface of the sheet is subjected to thermal fixation and conveyed;

calculating correction data for a printing magnification for image formation on the second surface of the sheet, on the basis of a measurement result relating to the first surface of the sheet and a measurement result relating to the second surface of the sheet;

storing the calculated correction data; and

executing, when an image is to be formed on the second surface of the sheet in double-side printing, a control to form the image by correcting a print magnification using the stored correction data.